

## عنوان مقاله:

Evaluation of the Diagnostic Value of Procalcitonin in Acute Pyelonephritis Indices in Patients Referred to the Hospital

محل انتشار: مجله پژوهشی دانشجویی زیست پزشکی طبری, دوره 5, شماره 4 (سال: 1402)

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## خلاصه مقاله:

Introduction: Uncomplicated urinary tract infection (UTI) is a widespread global ailment. The aim of this investigation was to evaluate the diagnostic efficacy of procalcitonin (PCT) in discriminating acute pyelonephritis from other lower urinary tract infections. Material and Methods: This applied research concentrated on patients with acute pyelonephritis who were referred to Hazrat Valiasr Qaemshahr Hospital. A straightforward (random) sampling technique was implemented. Leukocyte count, ESR, serum CRP, and PCT measurements were obtained from all patients. Results: Procalcitonin demonstrated positive results in  $\Lambda$ . $\Delta\%$  of pyelonephritis cases and  $\Delta\%$  of cystitis cases, signifying a statistically significant differentiation (P= $\cdot$ . $\cdot\uparrow$ ). The diagnostic accuracy of procalcitonin was  $\Lambda V$ .V%, while its sensitivity and specificity were  $\Lambda$ . $\Delta\%$  and  $\Lambda\Delta\%$ , respectively. A notable correlation between serum PCT and CRP levels was observed in patients with acute pyelonephritis (P= $\cdot$ . $\cdot\uparrow\Lambda$ ). The serum level of PCT in patients with acute pyelonephritis did not manifest any statistically significant variances based on age, gender, or history of urinary tract infection (P >  $\cdot$ . $\Delta$ ). Conclusion: Based on the findings of g research, it can be deduced that procalcitonin functions as a dependable indicator for distinguishing acutesthis study and comparisons with existin pyelonephritis from other urinary tract infections. Consequently, its utilization for this purpose is recommended. Ultimately, conducting further studies .with a larger sample size and in a multicenter manner is advised to validate the findings obtained in this study

كلمات كليدى:

Acute pyelonephritis, leukocyte count, Erythrocyte sedimentation rate, C-reactive protein, Procalcitonin

لینک ثابت مقاله در پایگاه سیویلیکا:



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